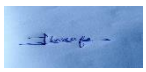
MES COLLEGE OF ENGINEERING, KUTTIPPURAM
DEPARTMENT OF COMPUTER APPLICATIONS
20MCA245 – MINI PROJECT

PRO FORMA FOR THE APPROVAL OF THE THIRD SEMESTER MINI PROJECT

(Note: All entries of the pro forma for approval should be filled up with appropriate and complete information. Incomplete Pro forma of approval in any respect will be rejected.)

Mini Project Proposal No : _____ *(Filled by the Department)*	Academic Year : 2020-2022 Year of Admission : 2020

1. Title of the Project : NEXT STOP TRANSPORTATION USING AI AND DATA MINING
2. Name of the Guide : Mr. NOWSHAD C V
3. Number of the Student: MES20MCA-2057
4. Student Details

	Name (in BLOCK LETTERS)	Roll Number	Signature
1.	TASREEFA PM	57	

Date:07/12/2021

Approval Status : Approved / Not Approved

Signature of Committee Members

Comments of The Mini Project Guide Dated Signature

Initial Submission :

First Review :

Second Review :

Comments of The Project Coordinator Dated Signature

Initial Submission:

First Review

Second Review

Final Comments : Dated Signature of HOD

INTRODUCTION

Public transport has evolved from what it once was. For commuters, tourists, management, and marketers alike, public transport and travel are now driven by data and advertising. It's never been easier or more cost-effective to use full audio and video display systems for information and advertising announcements, and the benefits are extraordinary.For the public, whether that be tourists or commuters, video and audio announcements can provide crucial information on journeys, points-of-interest, travel connections, and real-time GPS-driven maps. For tourists, this level of information enhances their experience of the city, the transport system, and allows them more time to enjoy their trip.

Next-stop announcements indicate journey arrival times, and our full graphic display offers a clear, readable screen for video advertising can also be used to provide location-specific content. Geo-specific marketing makes advertising much more valuable to both businesses and citizens, but importantly, it informs the travel experience to create a sense of connectedness with a city. Stops, transfers and points of interest are announced using our clear HD Text-To-Speech (TTS) engine.

OBJECTIVES

1. Next stop and reaching time estimation using rnn

2. Bus entry using RFID cards (Smart card for passengers)

TOOLS / PLATFORM, HARDWARE AND SOFTWARE REQUIREMENT

Hardware Requirements

- Input Device : Mouse, Keyboard
- Output Device : Monitor
- Memory : 4 Gb Ram (Minimum)
- Processor : Intel core i3 or above

Software Requirements

- Operating System : Windows 8 /10for Better Performance
- Front End : Python (Flask)
- Back End : MySQL
- Software Used : PyCharm

- Web Browser : Internet Explorer/Google Chrome/Firefox(for web application)

PROBLEM DEFINITION AND INITIAL REQUIREMENTS

Existing transportation doesn't give any secure feature or assistive feature to user. Bus time predictions are not available in existing system.

BASIC FUNCTIONALITIES OF THE PROJECT

The system mainly contains two important modules.

1. User
2. Admin
3. Smart Card based bus check in and checkout
4. Smart Advertisement Module
5. Next stop time prediction using neural network

User level functionalities are given below

Android App Functions

1. GPS based locations updating
2. Next stop announcement
3. Advertisement rendering based on Geo-reference
4. Public notification announcement
5. Map rendering
6. Emergency messages announcement
7. Emergency photo rendering

CMS Functions

CMS is controlled by admin. Admin interaction is done through this CMS website.

Main functions of admin,

1. Login
2. Stops management

3. Advertisement management

4. Location tracking

5. Emergency photo management

6. Emergency message management

7. Public notification management